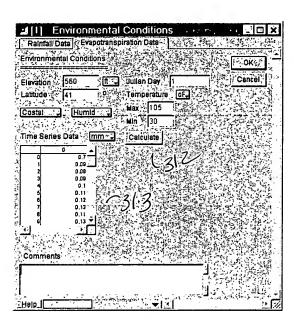


301

Fig3

Coosted\_7



2/1



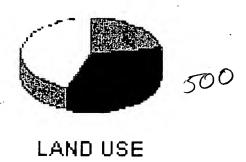
400

## SOIL TYPES

Type Pervious Lot	HC-Surf	HC-Sub D.5	Max WC	Fld Capacity	Wilting Pt	Halflife(hr)	ET Mult	Soil Depth	Max Ponding
Unused Pervious Bio Retention	i	.6	0.9 0.9	0.5 0.5 0.5	0,3 0.2 0.2	12 12 12	0.8	12 18 12	0
	o Militer	ે. રાજ્યાના સ્થાર		ir a lapida el	a at Ams		ing of the		t vera sa

upl

Fig 4



<b>4</b> [288]	Areas		and the second s		x
Area Summar	ر چار کار ا			ok 16	
				Cancel	
					50
Pe	rvious 3508805	Impervious 854000	Total 43626	05 🖃	
		estate arbiti			
Output File	C:\lemp\ Areas	[Life Outputs.xls	d 1112700 11 suree		
Start Cell	R: 4	1			
Export Dat	a   0				
Comments		-100		1	
Š					
Help					

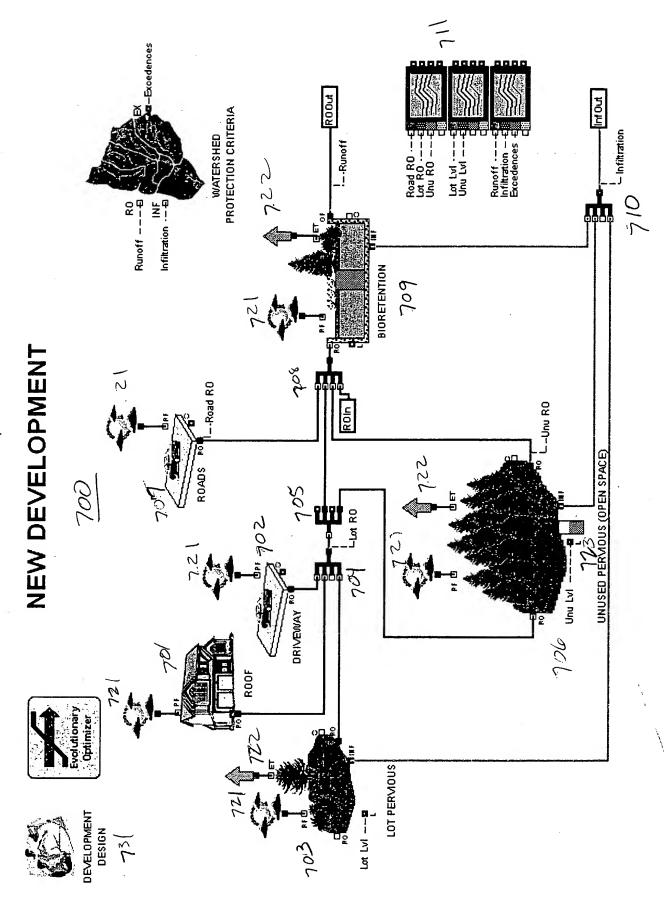
0/

09/19/2003

CH2MHILL LIFE DYNAMIC SIMULATION

Add blocks GIS IMPORT 603 509 SOIL TYPES ₹ 5 ENVIRONMENTAL CONDITIONS

J. LIFE\_GIS.mox







## DEVELOPMENT DESIGN

velopr	ment Design	Area ac	re No o	1 Lats 14	1 Max	141 Calc		A 1571	146 14
tal Av	railable .	50	Yatu	e per Lot \$ 30	0000	Profit \$	42300000	i Ce	incel
ximun	n Impervious	10	Cons	struction & Permit	ing Cost	% 5 \$	2115000		
tel Imp	oervious :	9.94	Sour	ce Control & Ope	n Space Cost		5145310	Set	Data
oicei L	ot Compositi	an .	Net	rofit .			35039690		
	Block No	Туре	Surface	Fixed Area	AreaAot	Start level		\$7 M.155	
	47 31	Road Rooftop	Impervious Impervious	10000	1000 1500		Excedence	s 80	7113
	27	Driveway	Impervious	Ď	500 ,		Limit	S. 110 P	776
	29	Onlot Pervious	Pervious	0	5500	5	en 4		
						•	, 8k  4		7.4
- 1									
									2014
							<b>∵</b> l		
liai		dankata				Later 181	<u>-</u>		
rce (	Controls 3		rest in the			Ľ	•		
rce C	Blk No	Туре	Area	Ponding Depth	Stan Level	Cost/Depth/Are	Cost/Area	Cost \$	
arce (	THE PERSON NAMED IN	Type Bio Retention	Area 4683	Ponding Depth	Stan Level	Cost/Depth/Are	Cost/Area 10	Cost \$ 320810	
rce C	Blk No								
rce (	Blk No								
rce C	Blk No								
	Blk No 41								
	Blk No 41								
rce (	Blk No 41	Bio Retention	4683 Stan Level		5 Cost \$	5			
	Blk No 41	Bio Retention	4683	12	5 12912	· · · · · · · · · · · · · · · · · · ·			
	Blk No 41	Bio Retention	4683 Stan Level	12	5 Cost \$	5			
en Sp	Blk No 41 Blk No 51	Bio Retention	4683 Stan Level	12	5 Cost \$	· · · · · · · · · · · · · · · · · · ·			
en Sp	Blk No 41 Blk No 51	Bio Retention	4683 Stan Level	12	5 Cost \$	· · · · · · · · · · · · · · · · · · ·			
en Sp	Blk No 41 Blk No 51	Bio Retention	4683 Stan Level	12	5 Cost \$	· · · · · · · · · · · · · · · · · · ·			
en Sp	Blk No 41 Blk No 51	Bio Retention	4683 Stan Level	12	5 Cost \$	· · · · · · · · · · · · · · · · · · ·			
	Blk No 41 Blk No 51	Bio Retention	4683 Stan Level	12	5 Cost \$	· · · · · · · · · · · · · · · · · · ·			

801

F1 88



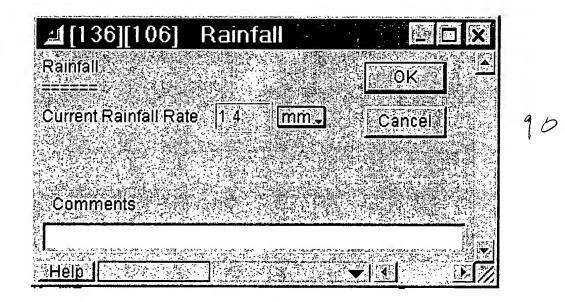
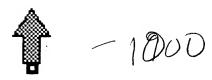
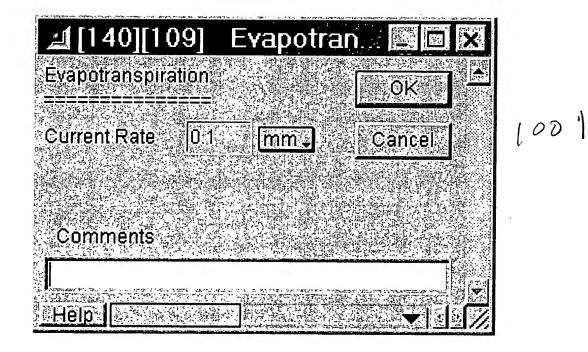
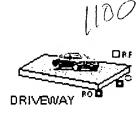


Fig9





F1810

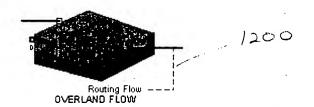




<b>≟</b> [31][9] Roof	
Impervious Surface	
	SIUnits OK
Area 208500 ft2 4	Cancel
Runoff Coefficient 0.9	
Rainfall 1.4 in .	
Current Total	
Volume 21892 21388970	ft3 1
Average Runoff Rate 3 6 081/2	ft3/s . ]
Comments	
Help Low De	nsity 🗼 🖈 🗓

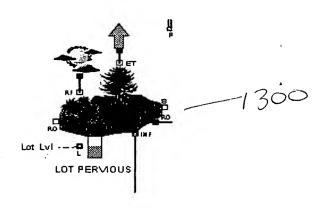
1102

F: 811



≝[15] Routing	
Overland flow parameters	Volume Depth Flow
Flow Routing	OK
	Longo (A) Dank Cancel
Total area contributing	1100000 MIZ + 125 - 125
Width of flow path	1000 12 /201
Average slope of flow	0.001
Manning's roughness	0.014
Depression storage	0 <b>n</b> .
Convergence	0.001
Comments	
	(2014年1月1日 - 1914年1月1日 - 1914日 - 1914
A CONTRACTOR OF THE CONTRACTOR OF THE	The state of the s

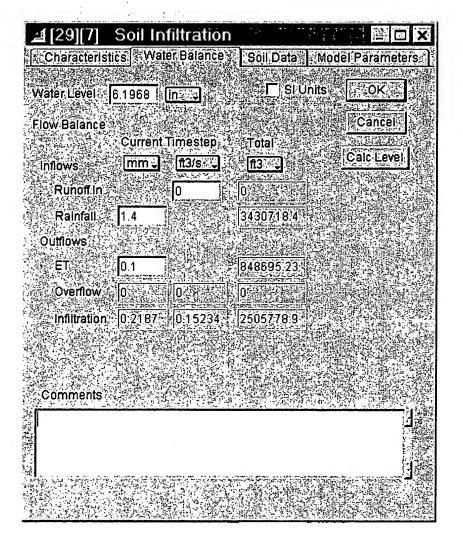
<b>4</b> [15]	Routing			- D X	
Overlan	d flow parameters	Volume Depth	Flow	27. 中世代	
Flow Rout	ing .			ок +	
inflow		5.0185634		Cancel	1202
: Flow der	oth and a second	0.0354139			
Outflow.		4.0350862 n3/	S		
Commen	ıs				
	ा गुरुषात्त्र अंगारी अस्ति । स्याहरू	and Assessed and Security	en whate più him a		
			and a market	<u>l</u>	



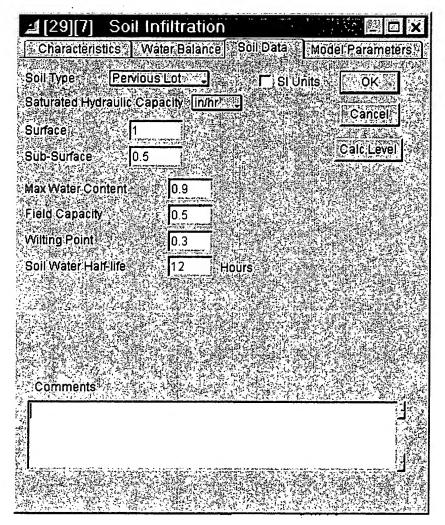
∡[29][7] Soil Infiltration	X DM
Characteristics Water Balance Soil D	ata' Model Parameters 1
Infiltration Area 764500 ft2	SI Units OK
Max Ponding Depth/ 0	Cancel
Design Soil Depth 12	
Crop Coefficient 0.8	Calc Level
Comments	
	1.3
에 1943 - 1750 - 1745년(1945년 1942년 1918년 1982년 19	

Fig. 13a

F1813b



F1813c





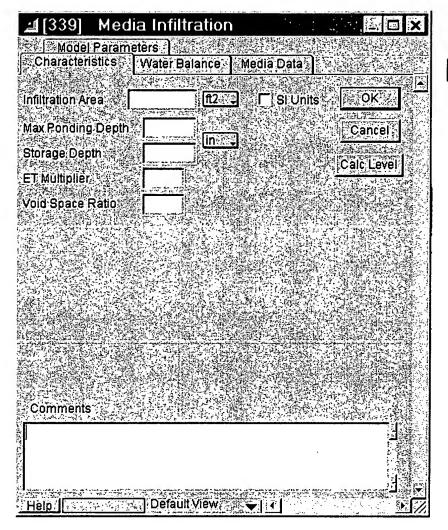
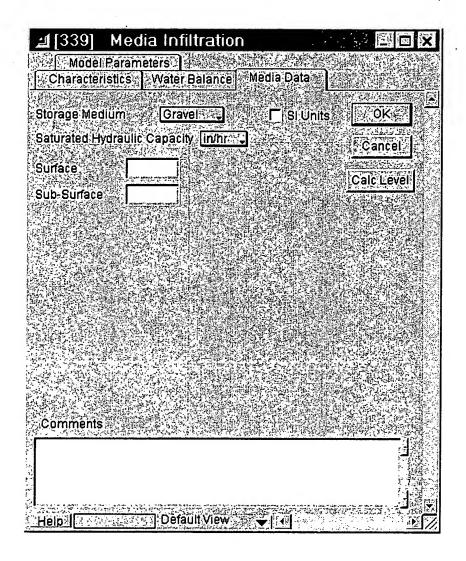


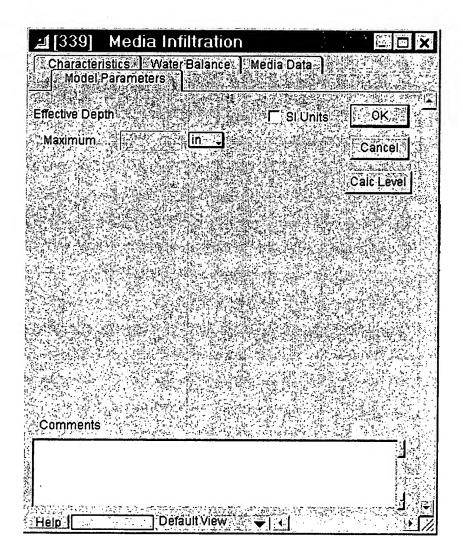
Fig146

<b>⊿</b> [339] ∣	Media Infiltration	X C E
	arameters tics Water Balance Media Data	
Characteris	tics Water Balance Media Data	
Water Level	<u>in:</u> ↓	s NOK;
Flow Balance		Cancel 1
	Current Timestep Total	Calc Level
Inflows	in fi3/s ff3/s	Calc Level
Runoffin		
Rainfall		
Outflows		
ET :		
Overflow		
Infiltration		
Comments		
		3
Help	Default View 🥕 📦 📧	

Fisher

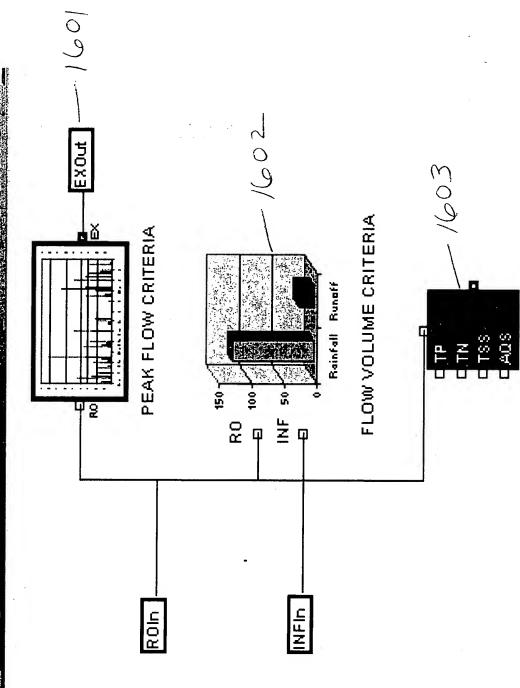


F18142

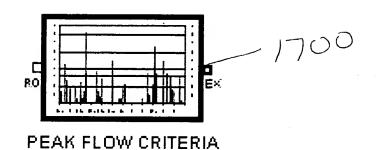


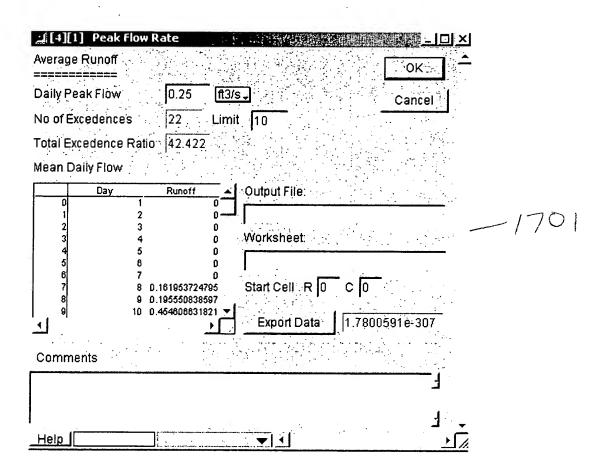
Soil Type:Pervious

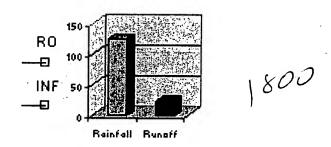
<b>4</b> [339]	Soil Selection
Soil Type Se	lection
Soil Type	Pervious Cot
C Update F	Cancel -Block Label
Comments	
Help	



WATER QUALITY CRITERIA







## FLOW VOLUME CRITERIA

			unoff	国(大学) 2年载
Vater B	alance =====			OK:
araet R	unoff % of Rain	nfell 15		ancel 🖫
	Rainfall	Runoff	<b>公司</b>	
0	19158400.4803		Inflitration 19803727.4328	宣义
	area experience a	r received	Artic Services	
output F	ile c'\Temp'	(Life Outputs xl	। ।	
at .		ten er i der er daar mendang mentitelen	Marine Marine Int June Marine 1974	
vorkshe		vs Runoff		
lart Cell	R 4 (	1 18		
Expo	rt Data 0			
ommer				
Con in its		<b>这个小学生</b>	以是这种原	
				1
				1.5

[80]

T1818

Show Plot Now Cancel Quicker Defaults, Non-Random Model Better Defaults, Non-Random Model Clear Plotter (enter 0.999 for 99.9%) Show Plotter (l.e. 0.2 is 20%) Use Antithetic Sampling Truncate tails for mean cases Constraints | Results | Comments Total Cases Total Samples 엉 by 0.2 50 Continue Run 0.95 ermination Conditions convergence checked after ક્ષ Always use Mean of Samples (Default) C Terminate only after maximum cases C Try both, using best for convergence 1000 Advanced Cost Statistics (forrandom only) NewRun Sample Convergence Terminate if best and worst within Better Defaults, Random Model Quicker Defaults, Random model Set Cost Optimizer Parameters C Aways use Median of Samples Default View Maximum Cases Member Population Size Maximum Samples per Case Mean 🧓 √alue

John Man

X OF	Cancel —	7			0	0	0 0	<b>-</b>	<b>.</b>	0 0	2 0							y		na		
Comments	OK Can	samules : +emu	4	0	C	က	c	? <b>~</b>			<b>Y</b>									Elabsed time 00 010 0100		
L. Results	Abort	Max Profit	2112	25109072	25109072	24952302	24050462 24050482	23884112	23312962	22463102					0		!.			Elan		Y
rs   Constraints	Abort	NewSplit	0.622102254184	0.678960421988	0.678960421988	0.678960421988	0.678960421988	0.678960421988	0.678960421988	0.576427762597	0.941609686928									ш	Bnce 693415%	
onary Optimizer Umizer Parameters	Ab	RDCost																	7	Current convergence metrics, mean	Convergence	
2[158] Evolutionary Set Cost   Optimize	Population Best at row 0	SCRDepth	22	-		10	01	-	9	34	12	 								nvergence n	Value: 30335917	) () () ()

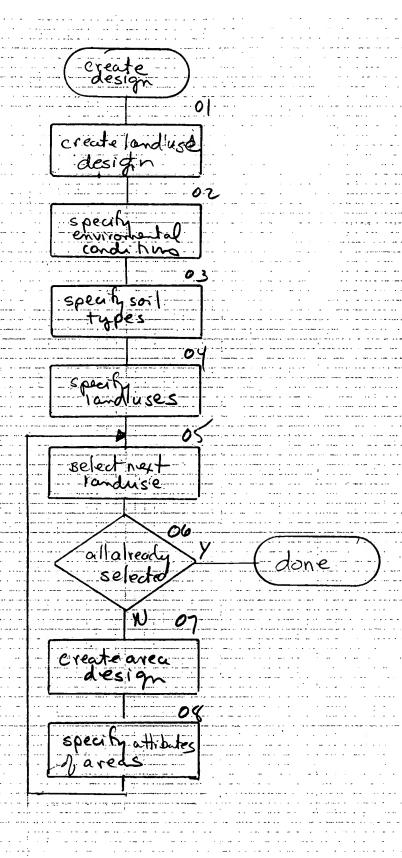
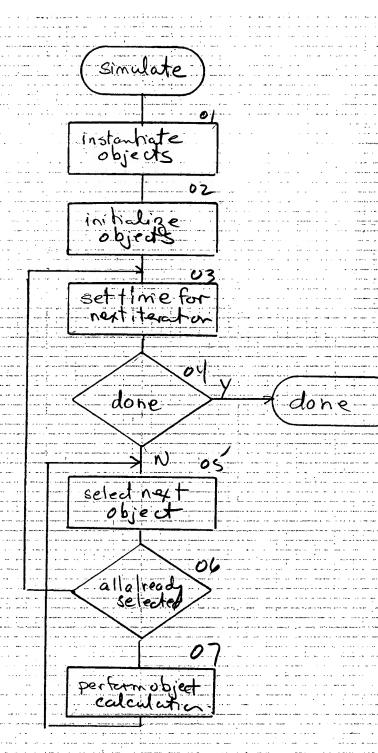
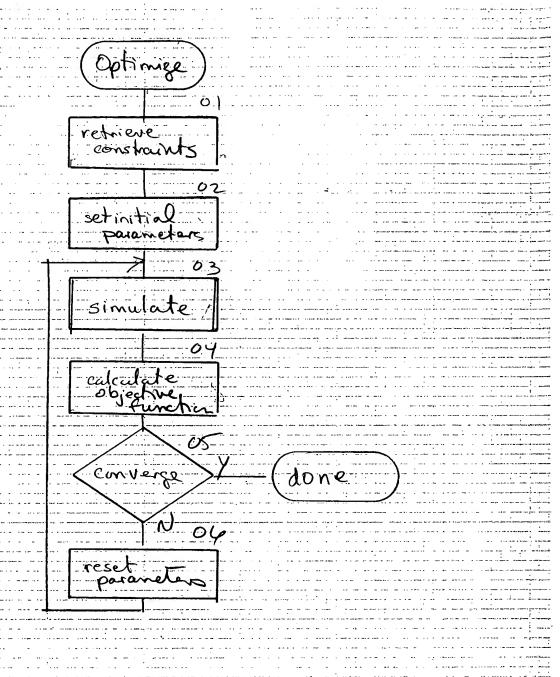


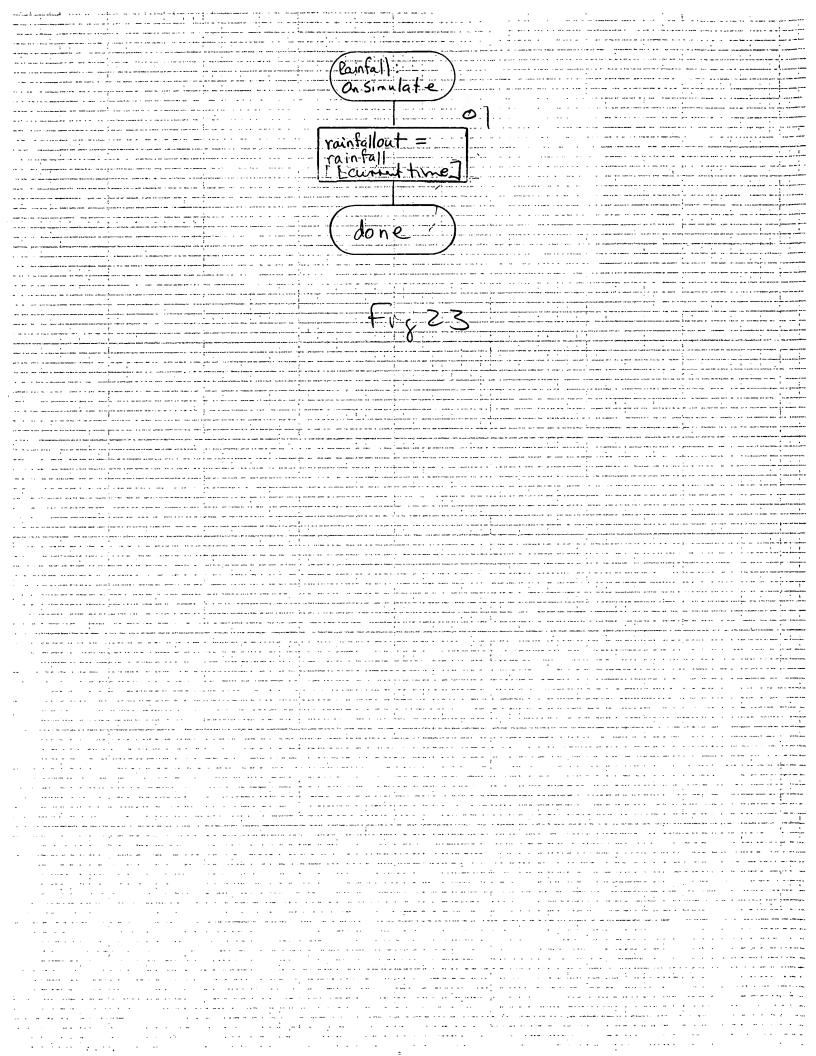
Fig 20

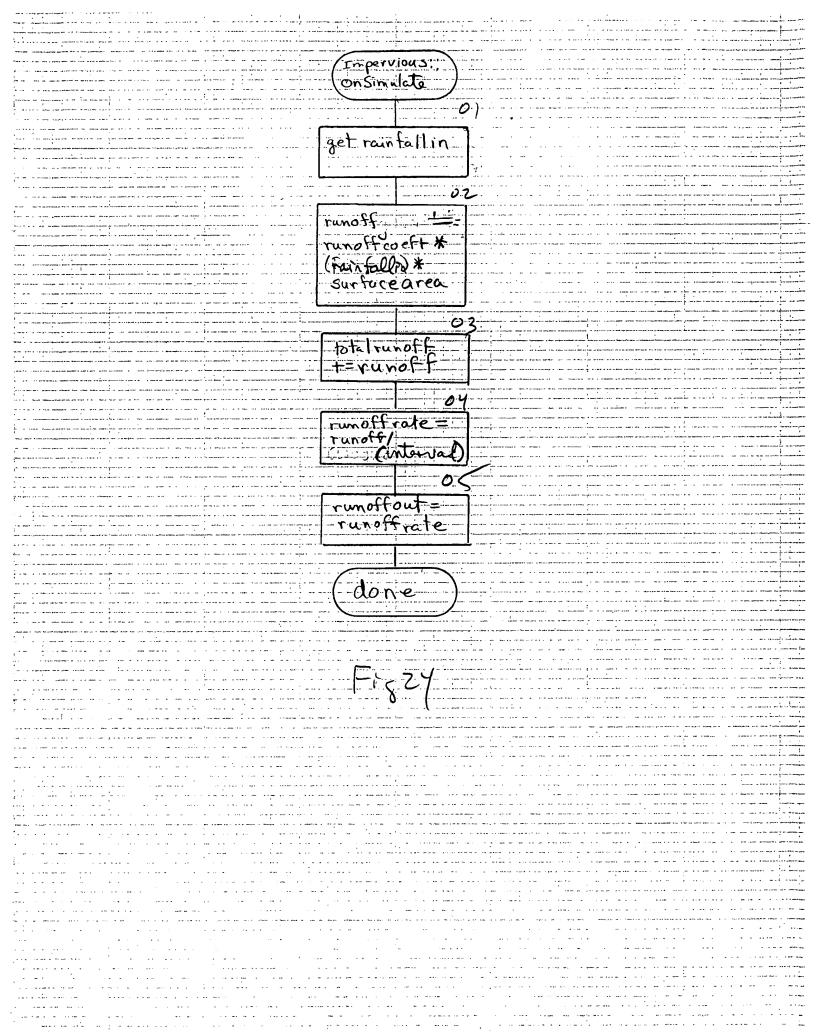


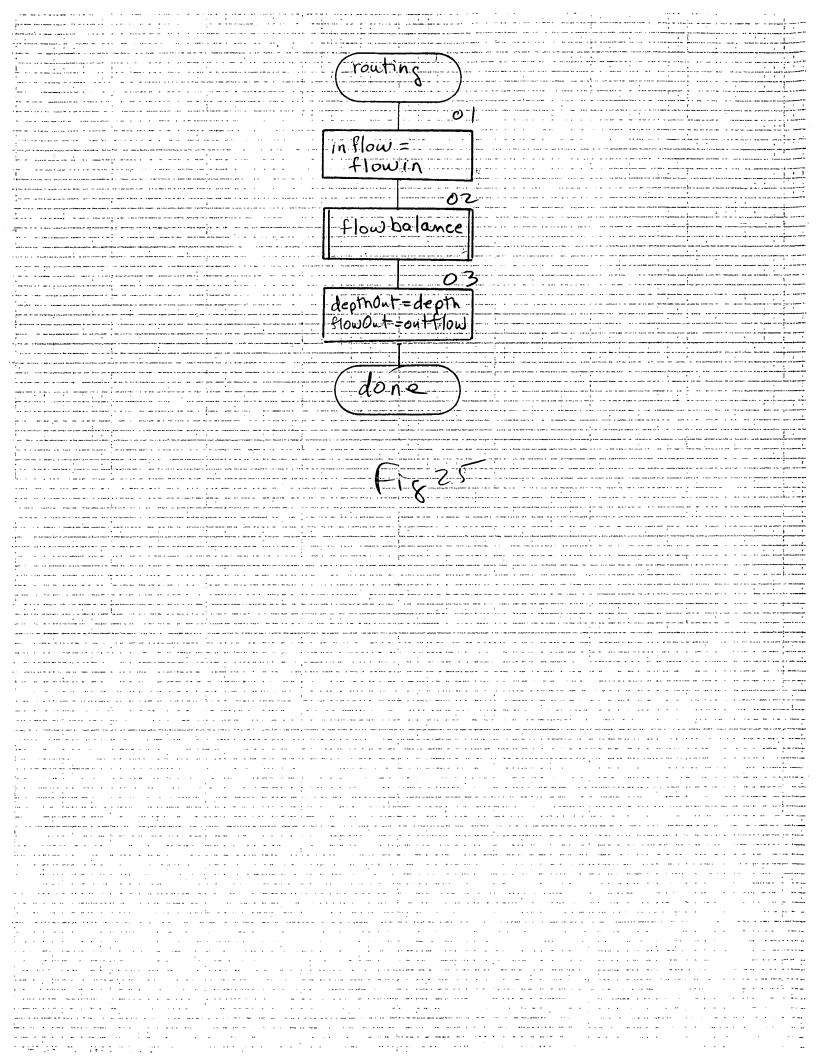
F182)

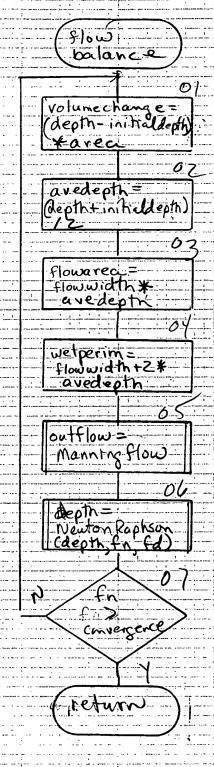


F1822

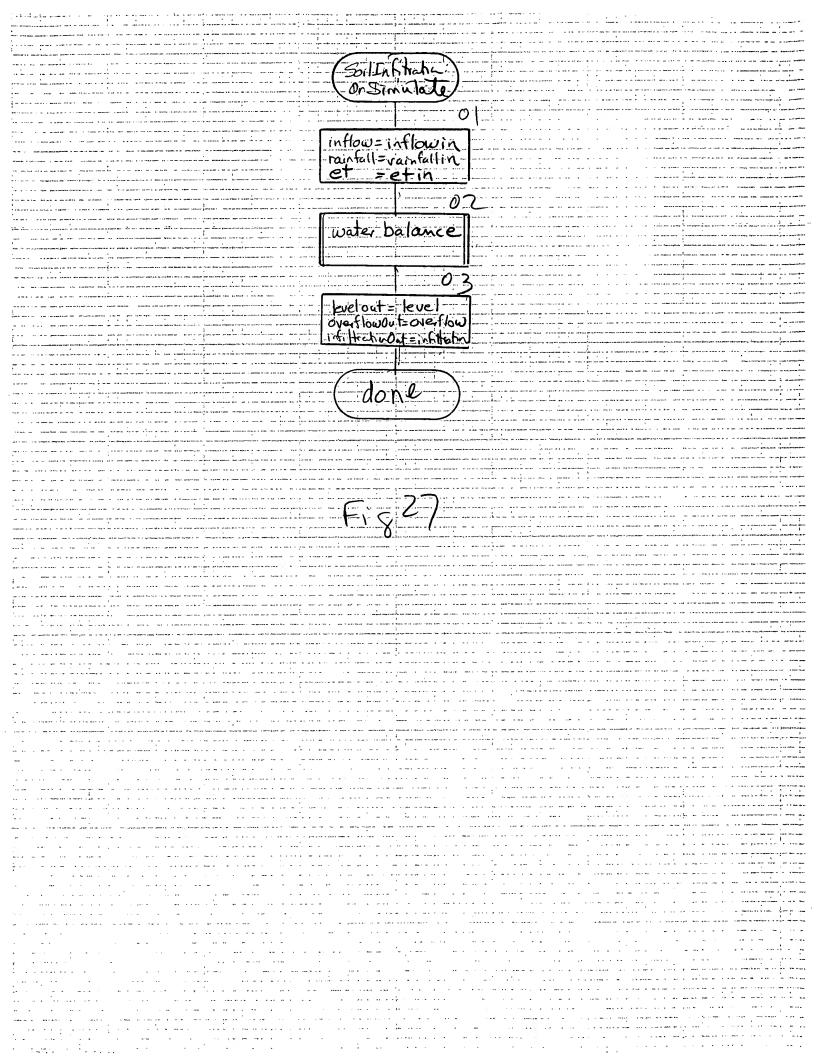








Fi & 24



water balance 02 calculate levelchange to overflow HC7ET calculate change overflow=0 wholevel calculate infiltration depth field capacit NOY intel trate depth=0 calculate waterlevel information with level+ levelchange < field capacity calculate overfloodepta water level Calentte Level done

F1828